G. R. S. 58]

Previous references. 1923-24 (Part)

File No. 18-23

Serial Nos. 1-20

Later references.
Part 6-28-34

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. 20.

Part B for 7th. 25

SUBJECT

Invention no 8 of 1923-24

F. R. S. 11] 1923

GENERAL AND REVENUE SECRETARIAT.

(Pol-)

NOTES.

File No. 18-23

FILE HEADING.

Inventn no 8/23-24 for "Process & device for the immediate production of mechanically unworked pure rubber sheets from Latex by the Anode Rubber Company Ltd, of 15 Throgmorton Avenue, London

From

Messrs Depenning & Depenning, Calcutta.

No. Rel 5 Dated 10-1-24 Received 16-1-24

Diary No. 2829	Enclos.	Spare Copies.	Serial No. 1

BRIEF ABSTRACT OF LETTER.

Request that leave may be granted to file a Specification in respect of above invention & advise remittance of Rs 11/- on account of application & stamp fees.

NOTES AND ORDERS.

The applicants state that they are not actual inventors but are merely assignees and so it is necessary to obtain from them a deed of assignment duly executed by the actual inventors (1) to ensure that the applicants are entitled to the exclusive privilege in respect of the invention & the actual

NOTES—First Sheet.

Serial No.

inventors have agreed to it and (2) to put an end to further correspondence in the behalf that may be ever necessary owing to any disputes that ~~may~~ might arise between the applicants & the actual inventors.

A draft calling for the deed of assignment ~~& a duty forwarding the power of attorney to the Superintendent~~ is put up ~~Stamps are taken up~~. After the issue of the draft the question to whom the application may be sent for scrutiny may be settled if necessary. The P.R.R. delivered is putup vide file no 20-23 ~~Del~~ separately.

2 Treasury receipt for Rs 10/-
Asst
21-1-24.

SNR 25/1, 3 Plans

Rev Secy) to remarks on draft letter & form

Re 26/1 SNR 28/1

3 From Messrs Depenning & Depenning
Letter dt 24-1-24.

Stating that certain words omitted on page three of the specification sent with trial are have to be inserted & requesting that necessary corrections may be made & intimated to them.

4 Submitted with a revised draft requesting the firm to remit the values of stamps required for the deed of assignment & the power of attorney under Articles 18 and 38 of Schedule I-A of Regn

NOTE—Contn. sheet.

3363

G. R. S. III-21

General and Revenue Secretariat.

Dal File No. 18 of 1923.

Serial No.	
	II of 1922 — 5 Please bring with SMR 6/2
	ARS 2-2-24 — 5 Revised draft for appl SMR 6/2
	Rev Secy) — 7 Please see remarks on the draft — Recd 8/2 SMR 11/2
	8 The value of stamp required for the deed of assignment depends upon the value of the consideration for such assignment. Unless the amount of consideration is known it is not possible to say what amount should be paid for stamp fees. If approved a copy of Article 18 of the Schedule will be sent to the applicants for reference
V A	From Messrs Depenning & Depenning. Letter dt 14-2-24. Request for reasons stated that the enclosed page 3 maybe substituted for that already on file & that the word "interest" on page 7 line 7 maybe replaced by the words "into the" ARS. 11-2-24
	This may be done for the convenience of the party. Rev Secy) SMR 20/2 Draft approved Yesh 21/2 JSSR SMR 21/2
5	To Messrs Depenning & Depenning Your letter dated 14th Feb with reference to ours, Requesting this to obtain a deed of assignment in proper form duly executed by the actual inventors and to make a

NOTE—Contn. sheet.

G. R. S. III-21

General and Revenue Secretariat.

3360
3869

(4

Pol File No. 18 of 1924.

Serial No.	
	a Remittance to cover the additional Sum required for the Power of Attorney and the deed of Assignment- Submitted with a draft forwarding the application to the Director of Industries & Commerce for opinion.
	AHP 25-2-24. Issue SNR 25/2
6	To The Director of Ind. & Com. Mysore Forwards Sec. for report under Section 6 clause (2) of the Mysore Inventions and Designs Reg. XI of 1894
	From Messrs Depuming & Depuming Calcutta Letter dt 6-3-24
	States that a sum of Rs has been sent as desired & that the deed of assignment with stamp fees will be sent in due course. A draft already approved is kept in the file.
	AHP. 12-3-24 13 Issue SNR 13/3
8	To The Superintendent of Stamps Mysore Forwards the power of Attorney for being impressed with the Mysore

GEN. & REV. SECRETARIAT
29 FEB 1924
INDUSTRIES & COMMERCE BRANCH.

NOTE—Contn. sheet.

~~2/5775~~ to 5 9
776 (5

G. R. S. III-2]

General and Revenue Secretariat. Part File No. 18 of 19 23

Serial No.	
	Mysore Govt. Stamps of the value of 1½ rupees & return.
9	From the Asstt. of Stamps No. 357 of 22.3.24 Returns the two Powers of attorney & requests acknowledgment.
	Draft letter acknowledging the above filed herewith.
	24/4/24 Issue 2.4.24
10	To The Supdt. of Stamps No. C 126 of 8/4. Acknowledges receipt of the two powers of Attorney forwarded with Ref (9).
11	From the Dir. of I & C No. 9-166 C. of 11/13 Aug. 1924. Recommends leave to file the Specification referred to above. Filed with 2 drafts.
	16/8/24 Leave may be granted as recommended by the Dir of I & C SMR 18/8 SMR Rev Secy) 19/8
	4&2/19.8 20/8

GEN. & REV. SECRETARIAT
11 APR 1924
INDUSTRIES & COMMERCE BRANCH.

NOTE—Contn. sheet.

file
Receipt of Supdt's (Serial No. 10) letter & the application & bill to be kept in the Secretariat file for record
Rd 11/4/24

2182 776 6

G. R. S. III-2.

General and Revenue Secretariat.

Pol. File No. 18 of 1923.

Serial No.	
12	To The Ansoda Rubber Co. Ltd. No. C 1312 of 2618. Authorises them to file the Specification
13	To Messrs Depenning & Depenning No. C 1333 of 2618. Forwards Sec(12) with a request that the fact may be communicated to the party concerned.
For B 2 14	To the Messrs: Depenning & Depenning, Calcutta. Letter dy 23.2.(number etc) 24. Advise the transmittance of Rs 19 required for the deed of Assignment Rubd. with a receipt for the Rs 19 of Stamps No. 574/24 Issue 5.11.24
15	To The Supdt. of Stamps. No. C. 3130 of 8/11. Sends the deed of assignment received with Sec (14) for being impressed with a Stamp of the value of Rs 19/-

GEN. & REV. SECRETARIAT
27 AUG 1924
INDUSTRIES & COMMERCE BRANCH.

GEN. & REV. SECRETARIAT
14 NOV 1924
INDUSTRIES & COMMERCE BRANCH.

Note—Contn. sheet.

General and Revenue Secretariat.

Part File No. 18 of 1923

4457 3989/(7

Serial No. 16

Forwarding Supdt. of Stamps
No. 150 dt 12-11-24
Returning duly stamped the
deeds of assignment.
Submitted with draft.

17/11/24

Issue

17.11.24

17 To

The Supdt. of Stamps
No I.C. 3452 dt 16/11
Acknowledging the receipt of the deeds
Submitted with Sr (6).

GEN. & REV. SECRETARIAT
20 NOV 1924
INDUSTRIES & COMMERCE
BRANCH

18 Forwarding Despatch
Despatch, Calcutta
Letter dt 4-12-24
Advises the remittance of
Rs. 30/- & request that the
mg fees returned duly signed
Submitted with 3 drafts & a T.R.R.

20/12/24

19 To

The Controller, Mysore Gazett
No I.C. 5520 dt 18/12.
Notifies the Issue of the Specified

P.T.

NOTE—Contn. Sheet

Pol File No. 18 of 19 23

General and Revenue Secretariat.

Serial No.

Sc 20) To

Messrs Depuneing and Depuneing
Nos. 5596 & 18-12.

Sd copy of desp. together with Certificate duly filled & signed

(3)—

GN. & REV. SECRETARIAT
17 FEB 1925
STRIES & COMMERCE
BRANCH.

Pat 18-23-1 DIARY NO 2829 (9

ESTABLISHED 1856.

De Penning & De Penning,

PATENT AGENTS

MEMBERS CHARTERED INSTITUTE PATENT AGENTS
LONDON
F. M. AUSTRALASIAN INSTITUTE PATENT ATTORNEYS
MELBOURNE.

TELEGRAPH & CABLE ADDRESS:-
"DEPEND CALCUTTA."
CODES USED:-
5TH ED. A B C., WESTERN UNION & SINGERS CODE.

22625

16 JAN 1924

INDUSTRIES & COMMERCE BRANCH.

To the Government Patent Office, Eastern Section Calcutta. Case T

File No.

Serial No. 8/23-24.

12 Pages

10th January 1924.

To

The Secretary to the Government of His Highness the Maharaja of Mysore, General and Revenue Secretariat Bangalore.

Sir,

We have the honour to forward under separate cover registered an Application from The Anode Rubber Company Ltd, of 15 Throgmorton Avenue London E,C,2 England, for leave to file a Specification of their invention for "Process and device for the Immediate Production of Mechanically Unworked Pure Rubber Sheets from Latex"

We forward by Postal Money Order the sum of Rs 11/- being Rs 10/- the fee on the above Application and Rs 1/- for the stamp on the Power of Attorney and which please have stamped for us.

The usual Government Order in the case may please be sent to us in due course.

We have the honour to be

Sir

Your most obedient servants

De Penning & De Penning

10

GEN. & REV. SECR.

281

INDUSTR... ...AM...DE

BRANCH

COUPON. The remitter may write here any communication to the payee.

fs. 20 d. —

For costs of Stamps on Assignments P. Klein to Anode Rubber Co Ltd to De Penning & De Penning

Remitter.

To 246 Brussels

re

24/10/24

(11

Pet- 18-23 -2

Duplicate.

(To be returned to the General and Revenue Secretariat for being placed in the file.)

1. No. 650

2. Date of Remittance 22/1/24

3. From whom received Messrs Depremany & Depremany, Calcutta

4. Date of receipt of amount in the General and Revenue Secretariat 15-1-24

5. On what account Appl. fee in Petn ~~of in sch no 8/23-24~~

6. Amount (in figures and words) Rs 10/- Rupees ten only

7. The head to which it should be credited.

(To be filled in by the Treasury.)

S Narayana Rao

for Secretary to Government,
Agl ~~General~~ Rev *Department.*

The above amount has been duly received and credited in the Treasury on this date.

REVENUE TREASURY
Date JAN 2 1924
HYDERABAD

Treasurer. *Try. Officer.*

N. B.—Both the counterfoil and the duplicate to be returned to the General and Revenue Secretariat duly signed by the Treasury Department.

24152

GEN. & REV. SECRETARIAT
28 JAN 1924
INDUSTRIES & COMMERCE BRANCH.

NO:

10, Government Place, East,
Calcutta,
24th January, 1924.

Pat 18-23-2

DIARY NO 3032

To

The Secretary to the Government of His Highness the
Maharaja of Mysore,
General and Revenue Secretariats,
B a n g a l o r e.

Sir,

With reference to our letters dated the 10th January 1924 forwarding two applications in the name of Anode Rubber Company Limited, we beg to draw your attention to a typist's error which has occured in the specification of Case I. In the manifold Specification on page 3, paragraph 4-line 6 after the word "purified" the words "latex on a supporting surface having" should be inserted as this passage otherwise has no meaning.

We shall feel obliged if you will kindly correct this specification and advise us of its correction at your convenience.

We have the honour to be,
Sir,
Your most obedient servants,
DePenning & DePenning

DePenning & DePenning,
Patent & Trade Marks Agents,
C a l c u t t a

10, Government Place, East,

CALCUTTA,

14th February 1924.

GEN. & REV. SECRETARIAT
18 FEB 1924
INDUSTRIES & COMMERCE BRANCH.

DIARY NO

To

The Secretary to the Government of His Highness
The Maharaja of Mysore
General & Revenue Secretariat,
B A N G A L O R E.

Sir,

With reference to our letters dated the 10th January 1924 forwarding two applications in the name of the Anode Rubber Company Limited and have the honour to request you to substitute the enclosed page 3 of Case 1 for that already on file as certain errors have occured in this sheet which are duly corrected by the present enclosed sheet.

We also beg to draw your attention to a clerical error of Case I on page 7, line 7, the word "without" should be replaced by the words "with the".

We shall feel obliged if you will kindly correct the application and advise us of its correction at your convenience.

We have the honour to be,

Sir,

Your most obedient servants,

DePenning & DePenning

DePENNING & DePENNING
PATENT AGENTS
CALCUTTA.

(14

COUPON / The remitter may write here any communication to the payee.

No. 60 As.

For on the Specification of The Amoco Rubber Company Cases I & II
Dr Penning & Dr Penning 4/2/25
Remitter.

RS
Rs 60/- To [illegible]

Rs
4/2/25 -

(15

Pol- 1926-23

G.R.S. III—3

Duplicate.-

(To be returned to the General and Revenue Secretariat for being placed in the file.)

[To be used on ... nent record.]

1. No. 205

2. Date of Remittance 13-2-25

3. From whom received Messrs. de Penning & de Penning, Calcutta

4. Date of receipt of amount in the General and Revenue Secretariat 9-2-25

5. On what account Judicial fee in respect of Administration Suit 23-26

6. Amount (in figures and words) 30/- thirty rupees only

7. The head to which it should be credited.

.....

(To be filled in by the Treasury.)

for Secretary to Government,
Rev General Department.

The above amount has been duly received and credited in the Treasury on this date.

Date FEB 1925

Hd. Acctt. *Treasurer.* *Try. Officer.*

N. B.—Both the counterfoil and the duplicate to be returned to the General and Revenue Secretariat duly signed by the Treasury Department.

N.B.—Should routine notes be written on small slips, the notes must be copied or slips pasted on this form.

16

G. R. S. VI—G/32]

SUBJECT.... ....

....

....

Diary No. of letter replied to ....

General and Revenue Secretariat

( )

, the *192*

Date of issue 23/2/24

Signed by Mrs S. N. R

Section Pat

File No. 18-23

Serial No. 5

No. I.C 5099 Respse

To Messrs Pefenning & Pefenning
Patent Agents
10, Govt Place, East
Calcutta.

Gentlemen,

With reference to
~~I am directed to acknowledge~~
~~the receipt of~~ your letter dt 10-1-24 and
14-2-24 respectively forwarding an
application for leave to file a specifica-
tion in respect of an invention no 8/23-24 for
"Process & device for the immediate
production of mechanically unworked
pure rubber sheets from Latex" by the
Anode Rubber Company Ltd, of 15
Throgmorton Avenue, London and also
the stamp Rs 11/- remitted on account of
application & stamp fees, ~~and~~ I am directed
to request—

over.

17

that, as the applicants are not the actual inventors, a deed of assignment in proper form duly executed by the actual inventors stating that the applicants are entitled to the exclusive privilege in respect of the invention etc may be obtained & forwarded.

I am further to state that under Art 38(b) of Schedule I-A of the Mysore Stamp Regulation II of 1927 the Power of Attorney has to be inscribed with a stamp of the value of one rupee and eight annas and to request that an additional sum of annas eight for the power of attorney and the value of stamps required for the deed of assignment under Art 18 of the Schedule referred to above ~~above may be remitted~~ (Postage allowed) copies of the Mysore Stamp Regulations can be had from for sale at the Curator, Govt Central Book Depot, Bangalore city.

(a remittance may be made to cover the

V (Two copies) Why not say what the amount to be sent is Rs

The necessary correction has been made in the Specification as desired in your letter of 24th January February 1926

Yours faithfully

Forwarded

List of enclosures,

Copied by

Examined by

G. R. S. VI—G/32]

(18

SUBJECT .....

.....

.....

Diary No. of letter replied to .....

General and Revenue Secretariat

( )

the *192*

Date of issue 27-2-24

Signed by W S N R

Section Pol-

File No. 18-23

Serial No. 6

No. 2.C-5170 Pol/Confdl

To The Director of Industries & Commerce.

Sir,

I am directed to forward herewith for report under Section 6, (1) clause (2) of the Mysore Inventions & Designs Regulation XI of 1894, an application of an inventor no 8/23-24 for "Process & device for the immediate production of mechanically unworked pure rubber sheets from Latex" by the Anode Rubber Company Ltd, of 15 Parliament Avenue, London.

I have etc

for Secretary to Government.

over.

W D 0632 - GPB—1500—16-8-23

ESTABLISHED 1856.

DePenning & DePenning.

PATENT AGENTS

MEMBERS CHARTERED INSTITUTE PATENT AGENTS
LONDON
F. M. AUSTRALASIAN INSTITUTE PATENT ATTORNEYS
MELBOURNE.

TELEGRAPH & CABLE ADDRESS:-
"DEPEND CALCUTTA."
CODES USED:-
5TH ED A.B.C., WESTERN UNION & SINGERS CODE.

25153

19) NO 3669

10, Government Place East,
Calcutta.
Pat 18-23-7

6th March 1924.

GEN. & REV. SECRETARIAT
10 MAR 1924
INDUSTRIES & COMMERCE
BRANCH.

Rev. Br. 9 re
10 MAR 1924

To

The Secretary

To The Government of His Highness the

Maharaja of Mysore.

General & Revenue Secretariat

Bangalore.

Sir,

re:- Application - Anode Rubber Co.

Received 10/3/24

With reference to your letter No. J6 5099 re/one Pat 18-23-5 dated the 23rd February 1924 we have the honour to forward herewith Rs 0/8/- being the amount short remitted for the stamp duty on the Power of Attorney.

We have written to our London correspondents for the Assignment from the actual inventors and will send you the document on receipt together with the fee due for the stamp duty on the document.

We have the honour to be

Sir

Your obedient servants,

DePenning & DePenning

20
NBS

G. R. S. VI—s-v/14]

DRAFT.

SUBJECT.....

.....

.....

Section. Pat—
File No. 18-23
Serial No. 8

Diary No. of letter replied to.....

No 9C 55-47 / Final one

GENERAL AND REVENUE SECRETARIAT
( )
the *191*

To

The Superintendent of Stamps

Bangalore

Date of issue 18-3-1924

Signed by H.V.S. Worsnop Asst

Has the honor to forward herewith a Power of Attorney executed by the Arabe Rubber company Ltd; of 15 Throgmorton Avenue, London constituting Messrs O'Penning & O'Penning, Calcutta as Agents in respect of ~~his~~ their invention No 8/1 23-24 for "Process & device for the mechanical production of mechanically worked pure rubber sheets from latex" and to request that the same may be impressed with the Mysore General Stamp of the value of Rupee One, also herewith and cancel stamp value Re 1 forwarded, and the Power returned to this office.

By Order,

25/1

25/1

For ~~Chief~~ Secretary to Government.

30024 4

Stamp 31 — WD-1529—GPB—1,000

1924

From

THE SUPERINTENDENT OF STAMPS IN MYSORE,

BANGALORE.

INDUSTRIES & COMMERCE BRANCH

To

The Offg: Secretary
Revenue Department
Bangalore

Dated 22nd

Despatched

Received

General No. 350

No.

Enclosure No. 2 Powers of attorney

J.e. 5647 & J.e. 5553-3

His No. Pat 18-23 dated 19.9.24.

Has the honor to return herewith duly stamped the 2 Powers of attorney received with the above.

The unspent balance of Rs. ..... sent on account of postage is also returned herewith in postage stamps.

An acknowledgment is requested.

Superintendent of Stamps in Mysore.

M

1-8-

22

POWER OF ATTORNEY.

8/23-24 Part 2-23

DIARY NO 2808

In	
Section.	
File No.	
Series XX.	

IN THE MATTER of the Invention and Designs Regulation 1894, of the Government of Mysore and in the matter of The Anode Rubber Company Limited, of 15, Throgmorton Avenue, London, E.C.2., England; a British Company.

GOVERNMENT OF MADRAS 21 MR 24 01-83 RUPEE

We, the abovenamed Anode Rubber Company Limited, do hereby retain constitute and appoint Mr L. A. DePinning Mr H. A. DePinning constituting the firm of DePinning & DePinning, 10 Government Place, East, Calcutta, India, as our Agents and Attorneys to apply for and obtain from the Government of Mysore and keep in force an Exclusive Privilege or Letters Patent for "Process and Device for the Immediate Production of Mechanically Unworked Pure Rubber Sheets from Latex", and we authorise them or either of them to sign our name to such papers and writings and do such acts regarding the same, including the appointment of a substitute or substitutes, as may be necessary or expedient.

Dated this 8th day of November 1923

The Common Seal of the Anode Rubber Company Limited was hereunto affixed in the presence of:-

Sara Stacey

E. A. Hadlett

For and on behalf of
THE ANODE RUBBER COMPANY LIMITED

A. A. Rogers DIRECTOR.

W. J. Brooks SECRETARY.

C1057 (23

2/4

From

THE ~~CHIEF~~ SECRETARY TO THE
GOVERNMENT OF HIS HIGHNESS
THE MAHARAJA OF MYSORE

Rev. Dept.

To

The Superintendent
of Stamps
in Mysore

Dated 5-4-24

Pay - 18-23-40

No. 4

Has the honor to acknowledge the receipt of the two Powers of Attorney duly impressed with the Mysore Stamp and returned with your ~~letter~~ No. 350
dated the 22nd March 24

By Order,

5.4.24

For ~~Chief~~ Secretary to Government.

Rev. Dept.

WD 874—GPB—200—10-1-21

9256

24

TELEGRAPHIC ADDRESS "INDUS COM."

In reply please refer to No. G 144 C

GOVERNMENT OF MYSORE,
DEPARTMENT OF INDUSTRIES AND COMMERCE.

Enc file

OFFICE OF THE DIRECTOR,

Dated, Bangalore, the 11th Aug: *192* 4.

13

Pat 18-23-11

P. G. D'SOUZA, ESQ., B.A., B.L.,
Director of Industries and Commerce in Mysore,
Bangalore (India).

FROM
13. AUG. 1924
To
G A Section

The Secretary to the Government of Mysore,
Revenue Department,
Bangalore.

GEN REV SECTT
15 AUG 1924
INDUSTRIES & COMME..
BR.

SIR,

I have the honour to recommend that leave to file a specification of an invention for the process and device for the Immediate production of mechanically unworked pure rubber sheets from latex may be granted.

The enclosures received with your No: IC.5170/Pat.18-23-6 dated 27th February 1924 are herewith returned.

I have the honour to be,

Sir,

Your most obedient servant,

DIRECTOR.

BV)

Case -
8/23-24 25
Fs. 1-2

APPLICATION.

To The Dewan of Mysore.

The Application of The Anode Rubber Company Limited, of 15 Throgmorton Avenue, London E.C. 2, England; a British Company, for leave to file a Specification under Part 1 of the Mysore Inventions and Designs Regulation, 1894.

1). The Applicants are in possession of an Invention for "Process and Device for the Immediate Production of Mechanically Unworked Pure Rubber Sheets from Latex"; they are the Assignees of the Inventor; and, to the best of their information and belief, the Invention is new within the meaning of Part I of the Inventions and Designs Regulation, 1894, and no circumstance exists which, if the Applicants are authorised to file a Specification and file it in accordance with that Part, will disentitle them to an Exclusive Privilege thereunder in respect of the Invention.

The Applicants have applied for a Patent in the United Kingdom in respect of this Invention, No. 27464/1923, dated the 1st day of November 1923. See Illustrated Official Journal (Patents) No. 1816, page 1617. Complete Specification filed the 1st day of November 1923.

The Applicants have not yet applied for a Patent in British India in respect of this Invention.

2). The following is a description of the Invention:-

The present invention relates to a process and apparatus for the immediate production of mechanically unworked pure rubber sheets from latex.

The préparation of crude rubber is at present effected by coagulating latex. When it is desired to produce technically pure rubber, the product obtained by coagulation, is washed and rolled by means of roller mills,masticators and the like.

In this procedure however, the product is very irregular and its quality depends on whether the washing has been effected more or less thoroughly, whether the rubber has been exposed to a greater or lesser extent to the disintegrating pressure of the rollers, and whether it more or less retains its original colloidal structure. In any case, the nerve of the crude rubber is weakened by this method of preparation.

A further disadvantage of the method hitherto in use is that the impurities contained in the latex of certain caoutchouc-yielding plants make it often uneconomical to exploit these plants.

The divergent quality of the crude rubber obtained by the same treatment from the same plants and the same districts, sometimes causes working difficulties of the most disagreeable kind, and both practical and scientific workers are constantly engaged in solving the problem how to obtain uniform products in which also the original colloidal structure, that is the nerve of the rubber, remains unhurt. The Hopkinson process aims at serving this purpose, the transformation of the latex into crude rubber being effected not by chemical coagulation, but in such a manner that the latex is atomised in warm air, is thereby dried, and is then shaped into blocks by pressing. This process preserves the nerve, but, unless the latex has already been purified, the product is not free from impurities, and must subsequently be again subjected to the detrimental washing process.

Attempts have also been made to obtain pure coagulated rubber by coagulating latex in a centrifugal apparatus, the centrifugal action also purifying the rubber at the same time. This intermittent method of working however, is uneconomical in practice.

On the other hand attempts have been made to precipitate rubber from latex by the action of an electric current. However, this method produces a crude rubber which has to be subsequently submitted to the washing process.

In contradistinction to these known processes, the present invention relates to a process for the immediate production of perfectly pure crude rubber sheets from rubber latex without previous mechanical working of the coagulated rubber (which would interfere with the nerve of the rubber), whilst completely retaining the original colloidal structure of the same, that is to say in such a manner that the entire rubber contents of the latex, and even the latices of inferior grades of rubber, can be worked up to first class, perfectly pure rubber sheets without practically leaving any residue.

According to the new process the latex is freed from impurities and if desired from a great part of its serum, for example, by centrifuging in skimming centrifugal machines, i.e. centrifuges which allow the latex of highest concentration to be continuously removed during the centrifuging, and thereupon the rubber is precipitated from the purified concentrated latex by electrophoresis, upon a base having anodic properties, in the form of a coherent crepe sheet, and detached from said base after removal from the bath.

Preferably a preservative agent which impedes coagulation, for example about 0.5% of ammonia, may be added to the latex prior to centrifuging, or prior to electrophoresis.

It is true that it is known to precipitate rubber from latex, by electrophoresis, in a coagulated state. However, the precipitates

obtained in this manner from the original latex contain also the impurities and the resinous constituents of the latex in full degree, because they also exhibit a negative charge, and migrate during electrophoresis in the same direction as the rubber globuloids. Consequently, these precipitates or sheets are not pure, and for the purpose of purification must be washed, that is to say they have to be submitted to that mechanical treatment and mastication which according to the invention is just what is to be avoided.

According to the present process the latex is intended to be purified for example by centrifuging and concentrating prior to electrophoresis.

Attempts have already been made to concentrate latex by centrifuging. However, these attempts as can be seen from the article published by the Firm of Henderson in the Journal "India-Rubber World", the issue of 1st August 1923, have entirely failed. Either the centrifugal apparatus becomes choked, or only a small part of the rubber contained in the latex is transformed into a slightly higher concentration as compared with the original latex; whereas the bulk of the rubber content remains in the more dilute, and comparatively more impure part, which on coagulation, yields rubber of inferior quality.

Experiments have now shown however, that is is possible, when using a centrifugal apparatus of the kind described driven at suitable speed, and by a suitable selection of the thickness of the concentrated layer removed, to transform practically the whole rubber content of the latex into a concentrate containing up to 60% of dry rubber of the highest purity. If the centrifugal apparatus is driven at a speed at which the concentration of the rubber in the stratum of lowest specific gravity of the latex contained in the centrifugal apparatus approaches as near as possible (without exceeding) the limit of stability necessary

to ensure prevention of coagulation, and if at the same time the thickness of the skimmed concentrated layer is so calculated that the average concentration of said skimmed layer (the concentration of which as is well known decreases from the axis towards the perimeter of the centrifuge) deviates only slightly from the maximum concentration of same, and the diluted effluent from the centrifugal apparatus is treated in the same way, it is possible in practice by repeating the centrifugal action merely three times, to transform the entire rubber contents of the latex, into a stable concentrate containing about 50-60% dry rubber and technically free from impurities.

It has further been found that, in this kind of concentration and purification of the latex, the transparent dyeing of the rubber can be most advantageously carried out. For this purpose the latex is treated with organic dyes, the ultramicrons of which, when in the state of hydrosol, exhibit a negative charge. Such dyes are adsorbed by the rubber particles without causing coagulation, and enter the concentrate, whereas the unadsorbed parts of the dye remain in the serum or are deposited in the sediment.

From this purified, and if desired also coloured rubber latex, the rubber is precipitated, by electrophoresis, upon a base having anodic properties. In the electrophoretic precipitation of rubber the dye adsorbed by the rubber particles enters with the rubber, into the precipitated rubber sheet, and yields a completely uniform transparently coloured rubber. In the same way as these dyes, a series of the known additional agents also may be incorporated with the latex after they have been brought into the colloidal state. In using additional agents, the ultramicrons of which in aqueous dispersion possess a negative charge, cataphoretic precipitation produces a homogeneous rubber mixing.

For producing a continuous band or sheet, an endless base is used such as a drum or an endless band, which is continuously passed through the latex. The rubber sheet precipitated by electrophoresis can be detached, as a coherent band, from that part of the movable anodic base which protrudes from the latex.

In the drawings are diagrammatically shown several embodiments of suitable devices for the immediate production of crepe sheets from purified or if desired also concentrated latex, which if desired is coloured or incorporated with additional materials.

Fig. 1 is a diagrammatic longitudinal section of a device with a drum;

Fig. 2 is a longitudinal section of a device with an endless band;

Fig. 3 is a longitudinal section of a device with an endless band, in which this latter simultaneously forms the receptacle for receiving the latex.

According to Fig. 1 the purified concentrated latex c is placed in the receptacle b in which the revolvable metal drum a is inserted. The drum a is connected to the positive pole of the source of current d and forms the anode. k are the carbon cathodes connected to the negative pole of the source of current. The drum a is revolved in the direction of the arrow. Owing to the cataphoretic action of the electric field, the caoutchouc particles migrate towards the anode a on which, by reason of the acid ions and oxygen bubbles liberated there, the rubber is precipitated as a spongy but coherent deposit. From that part of the drum which emerges from the bath the deposited rubber layer is detached in the form of a continuous band-like spongy sheet e, which can be easily freed from the adherent, non-coagulated latex

and dried. The resulting crepe sheet is perfectly pure and forms, when dried, a first-class marketable article, without further working, the colloidal original structure not having been interfered with by any treatment. The caoutchouc contents of the latex can be entirely recovered by cataphoresis without impairing the quality of the product. However, inasmuch as the velocity of separation decreases with little without decreasing concentration, the weakened bath may preferably be enriched again by centrifuging or electro-osmosis.

As material for the anode a conductor should be used which will only be corroded to a minimum extent by the liberated oxygen and acid ions, for instance, amalgamated zinc.

According to Fig. 2 an endless metal band or metal fabric a serves as anode, and is led in such a way over rollers as to form a horizontal track a' which is as long as possible and situated near the surface of the bath below which track the cathode k is situated on the bottom of the receptacle b. On issuing from the bath the excess latex is squeezed out of the rubber precipitate on the band between the rollers f, f, whereupon the band is passed over a collecting receptacle g and is rinsed and washed by means of nozzles h, and thereupon dried over a drying table i. The dried sheet is detached from the band a and rolled or folded. The precipitation of the rubber crepe can be effected on one side upon the band a. However, the device may also be suitably constructed in such a way that cathodes are provided on both sides of the band a and that the rubber precipitate is formed on both sides of the band.

Fig. 3 finally shows an arrangement in which the band a forms a trough-like loop a^2 into which the concentrated latex is filled. In the trough a^2 there is also a cylindrical, turned

carbon cathode k, at both end faces of which are provided plates n consisting of a non-conductor, especially rubber, which fit as tightly as possible against the trough a^2 and close same. Any latex which, nevertheless, escapes is collected in a trough m. The term rubber is understood to include any similar substances, such as guttapercha, balata, and the like.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is :-

1. The process for the immediate production of mechanically unworked pure rubber sheets from latex, which consists in freeing the latex from impurities, and thereupon precipitating the rubber from said purified latex by electrophoresis upon a basis having anodic properties.

2. The process as set forth in claim 1, in which the purification of the latex is effected by centrifuging in centrifugal apparatus.

3. Process as set forth in the preceding claims, which consists in precipitating the rubber upon an endless base (drum or band) having anodic properties and continuously travelling through the latex, and detaching the rubber sheet from that part of said base which emerges from the latex.

4. Process for the production of purified uncoagulated latex concentrate by centrifuging, which consists in adding an agent impeding coagulation to the latex and centrifuging the thus treated latex in a skimming centrifugal apparatus driven at a speed at which the concentration of the latex in the stratum of the lowest specific gravity of the latex contained in the centrifuging apparatus approaches as near as possible (but without exceeding) the limit of stability necessary to ensure the prevention of coagulation, and maintaining

simultaneously the thickness of the skimmed concentrated layer so low, that the average concentration of said skimmed layer deviates as slightly as possible from the maximum concentration of same, and subjecting the dilute effluent to the same treatment until practically the whole rubber contents of the latex have been transformed into a concentrate containing abot 50-60% dry rubber, and substantially free from impurities.

5. Application of the process as set forth in any of the preceding claims for the production of a transparently coloured rubber sheet or of a latex concentrate suitable for the production of transparent rubber goods, which consists in treating the latex with organic dyes, the ultramicrons of which exhibit a negative charge when in the state of hydrosol and transferring the excess of dye which has not been adsorbed by the rubber particles during the concentration by centrifuging, into the serum or into the sediment.

6. Process as set forth in any of the preceding claims in which the additional substances for incorporation in the rubber are mixed in the colloidal state with the latex, and are simultaneously precipitated with the rubber by means of electrophoresis.

7. Apparatus for the continuous direct production of rubber crepe sheets from rubber latex, comprising an endless electrically conductive base adapted to be immersed in a receptacle charged with latex, and to be continuously passed through said latex, means connecting said base to the positive pole of a source of current, a detaching device at a part outside the liquid receptacle for the continuous removal of the rubber crepe precipitate formed on said endless base and cathodes arranged to face the endless base within the receptacle.

8. Apparatus as set forth in claim 7, in which the endless base consists of a revolvable drum.

9. Apparatus as set forth in claim 7 in which the endless base consists of a metal band or metal fabric.

10. Apparatus as set forth in the preceding claims, in which the band is provided with a horizontal part dipping into the receptacle for the rubber latex, and in which a cathode is provided below and parallel to that part of said base.

11. The process for the immediate production of mechanically unworked, pure rubber sheets from latex, and apparatus for carrying out said process, constructed, arranged and operating substantially as described and as shown in the accompanying drawings.

12. Mechanically unworked, pure rubber sheets, whenever produced from purified and if desired concentrated latex according to the process set forth in any of the preceding claims.

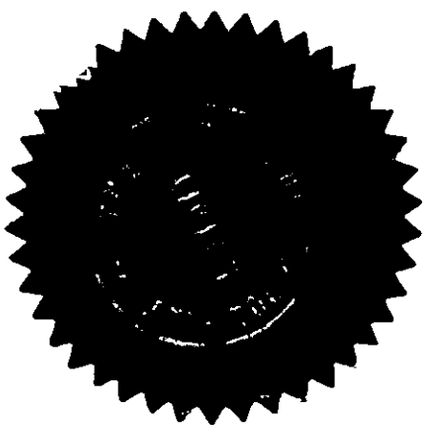
35

3. The Applicants, therefore, apply for leave to file a Specification of the Invention pursuant to Part 1 of the Inventions and Designs Regulation, 1894.

For and on behalf of
THE ANODE RUBBER COMPANY LIMITED
S H Rogers DIRECTOR.
W J Brooks SECRETARY.

We, the Applicants above-named, do declare that the facts stated in this Application are true to our knowledge, except as to matters stated on information and belief, and as to those matters we believe them to be true.

Dated this 9th day of November 1923.



For and on behalf of
THE ANODE RUBBER COMPANY LIMITED
S H Rogers DIRECTOR
W J Brooks SECRETARY

Rubber Company Ltd

1 Sheet

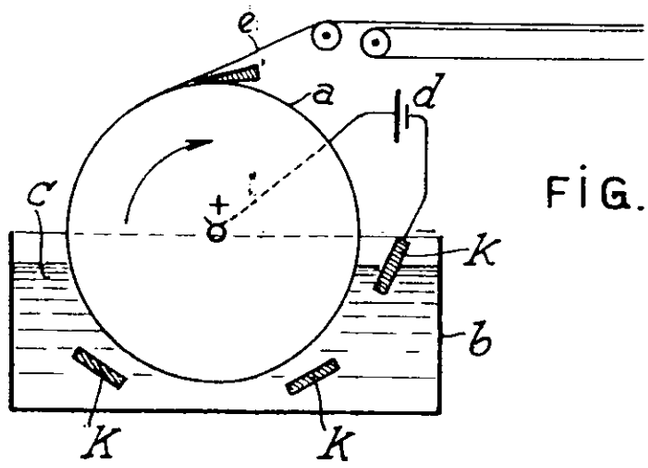


FIG. 1.

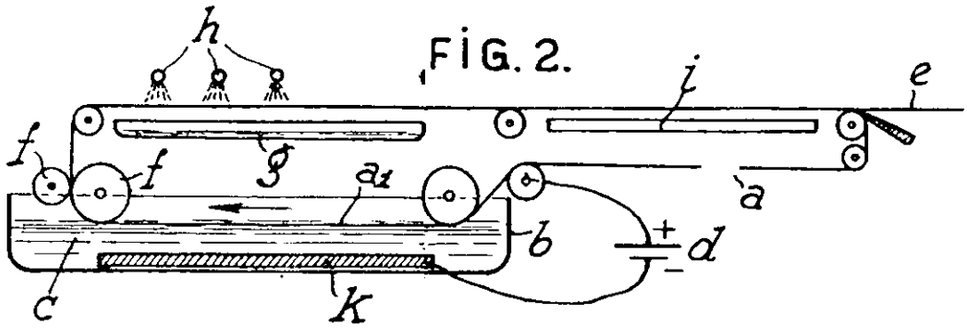


FIG. 2.

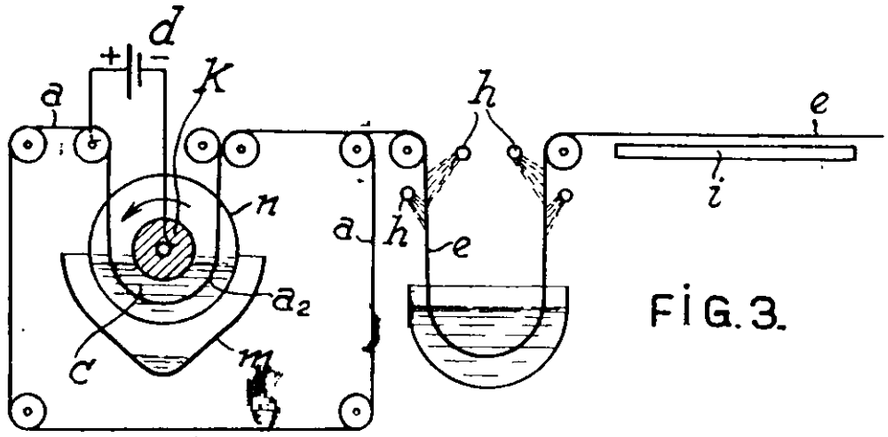


FIG. 3.

1-C 1332 3

Pat. 18-23-12

G. R. S.VI—s:-v/21]

Government of Mysore

GENERAL DEPARTMENT.

Register No. 8 of 1923-24

Bangalore, the 25/8/1924

WHEREAS an application, dated the 16th January 1924 and received on the 16th January 1924 has been submitted under Section 5 of the Mysore Inventions and Designs Regulation, 1894, by the Anode Rubber Company, Limited, London

(hereinafter referred to as "the applicant"), for leave to file a specification of an invention ~~for~~ No. 8/23-24 for "Process and device for the immediate production of mechanically unworked pure rubber sheets from latex"

And whereas the applicant has duly complied with all the requirements of Section 5 of the said Regulation;

The Government of Mysore are pleased, under Section 6 of the said Regulation, to authorize the applicant to file a specification of the said invention in accordance with the provisions of the said Regulation.

ORDERED, that the applicant be, and he is hereby, informed accordingly.

By Order of the Government of Mysore,

S. Narayanarao

for Secretary to the Govt. of Mysore,
Rev. ~~General~~ Department.

Certified that the fees prescribed in the fourth schedule to the Mysore Inventions and Designs Regulation, 1894, in respect of the application for leave to file the said specification and of the filing thereof have been paid by the applicant, and that the specification hereinbefore described has been duly filed in accordance with the provisions of Section 8 of the said Regulation on this the 13th day of February 1925.

Secretary to the ~~Govt.~~ of Mysore,
General Department.

(Section 8 of the Inventions and Designs Regulation, 1894.)

8. (1) If within six months from the date of an order under Section 6, Sub-Section (1), or within such further time, not exceeding three months, as the Government of Mysore, in its discretion, may, on cause shown to its satisfaction and on payment of the fee prescribed in that behalf in the fourth schedule, see fit to allow, the applicant causes a specification of his invention to be filed in manner by this Part required, and the fee prescribed in the fourth schedule in respect of the filing of the specification to be paid, the applicant shall, subject to the other provisions of this Part, be entitled to the exclusive privilege of making, selling and using the invention in the Territories of Mysore, and of authorizing others so to do, for a term of fourteen years from the date of the filing of the specification.

(2) But an exclusive privilege in respect of an invention of a new manufacture shall, notwithstanding anything in Sub-Section (1), cease, if the inventor fails to pay, within the time limited in that behalf by the fourth schedule, any fee prescribed in that schedule in respect of the continuance of the privilege.

(3) If, nevertheless, in any case, by accident, mistake, or inadvertence, an inventor fails to pay any such fee within the time so limited, he may apply to the Government of Mysore for an enlargement of the time for making the payment.

(4) Thereupon the Government of Mysore may enlarge the time accordingly, on payment of the fee prescribed in that behalf in the fourth schedule, and subject to the following conditions, namely :—

(*a*) the time for making a payment shall not in any case be enlarged for more than three months ; and

(*b*) if any suit is instituted in respect of an infringement of the exclusive privilege committed after a failure to make a payment within the time limited for the making thereof and before the enlargement of that time, the Court disposing of the suit may, if it thinks fit, refuse to award or give any damages in respect of the infringement.

W D 02300—GPB - 500—24-11-16

G. R. S. VI—s-v/13]

89 2

DRAFT.

SUBJECT.....

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.....

Section. P&V
File No. 18-23.
Serial No. 13.

No. I.C 1333/Ests

Diary No. of letter replied to.....

To

Messrs: Desmond & Desmond
Patent Agents,
10 Govt. Place, East
Calcutta.

GENERAL AND REVENUE SECRETARIAT,
( )
, *the*.....191

GENTLEMEN,

With reference to your letter ~~No.~~.....
dated the 10th January 1924
I am directed to forward herewith G. O I.C 1332
No. G. / G. M. dated the 21/1/24 Pol. 18-23
191 , authorizing the Hindoo Rubber
Company, Ltd., London
.....
to file a specification of an invention ~~for~~ no. 8/23-24
for Process and Machines
for the immediate production
of mechanically unmarked pure
rubber sheets from latex"
and to request that the fact may be communicated to the party concerned.

Date of issue 24.1.24.

Signed by [illegible]

~~I have, etc.~~
Yours faithfully
SNR
18/2
for Secretary to Government.
Rev. Deptt

2/2.

2 292

40

No 505

10, Government Place, East,
Calcutta 23rd February 1924.

Pat-18-23-14

To

The Secretary,
To the Government of His Highness
the Maharaja of Mysore,
General and Revenue Secretariat,
Bangalore

Sir,

Re. The Anode Rubber Company Limited,
Appln. for Exclusive Privilege,
Patent No. 9 of 1923-24.

A

With reference to your letter No. C 5099 re/one
Pat. 18-23-5

dated the 23rd February 1924, we have the honour to forward herewith the Assignment in this case, we also forward by Postal Money Order the sum of Rs 10/- for costs of the stamps and which please have affixed to the document. Kindly acknowledge receipt.

We have the honour to be,

Sir,

Your most obedient servants,

D. Penning & D. Penning

G. R. S. VI—s·v/14]

DRAFT.

41
Venkatesa Gowda
11/11/24

SUBJECT.....

.....

.....

Money Sent
on 10/11/24

Section. Pat
File No. 18-23.
Serial No. 15

Diary No. of letter replied to 2782

I.C 3130/Sch

GENERAL AND REVENUE SECRETARIAT
( )
the *191*

To

The Assistant
Examiner of Patents
Mysore

Date of issue 8/11/24.

Signed by for S. N. Rao

Has the honor to forward herewith a deed of assignment ~~Power of Attorney~~ executed by the Assistant Rubber Company, Ltd constituting in favour of Paul Klein Budapest V. Hungary ~~as Agents~~ in respect of ~~his~~ their invention No. 8/23 for "Process & device for immediate production of mechanically unworked pure-rubber sheets from "Latex"" and to request that the same may be impressed with the Mysore General Stamp of the value of ~~Rupee One~~ Rupees ten, also herewith forwarded, and the ~~Power~~ deed returned to this office.

By Order,
5.11.24

For ~~*Chief*~~ *Secretary to Government.*

Rev

42

OFFICE 2598 Dept 51

NOV 1924

From The Superintendent of Stamps in Mysore. Bangalore
Pat. 18-23-46

To The Secretary, to the Government of H.H. the Maharaja of Mysore

Dated 12th Revenue Department, Bangalore

Despatched November 1924

Received 12 NOV 1924

General No. 1506 Dte

No.

Enclosure No 42. Assignment

Sir,

I have the honour to return herewith duly Stamped the two deeds of Assignments received with your letter No. dt. I.C. 3129 Pat. 19-23-12 and I.C. 3130 Pat 18-28-15 dated 8th November 1924 respectively, and to request the favor of an acknowledgment

I have the honor to be,
Sir,
Your most obedient Servant,

Superintendent of Stamps
in Mys

Ass'g

43 Pat 10-23 Mad I

THIS INDENTURE made the eleventh day of October One thousand nine hundred and twenty three between PAUL KLEIN, of 78 Vilmos Császár-út, Budapest V, Hungary (hereinafter called the Assignor) of the one part and THE ANODE RUBBER COMPANY LIMITED, of 15 Throgmorton Avenue, London E.C.2, England (hereinafter called the Assignees) of the other part, WHEREAS the Assignor claims to be the true and first Inventor of an invention entitled "Process and Device for the Immediate Production of Mechanically Unworked Pure Rubber Sheets from Latex" for which application for the grant of an Exclusive Privilege or Letters Patent is to be made in Mysore in the name of the Assignees AND WHEREAS in consideration of the sum of £50: 0: 0. (Fifty Pounds Sterling) the said Assignor has agreed with the Assignees for the sale to them of the entire right, title and interest in and to the said invention and the Exclusive Privilege or Letters Patent therefor in Mysore,

NOW THIS INDENTURE WITNESSETH that in pursuance of the said Agreement and in consideration of the sum of £50: 0: 0. (Fifty pounds) paid to the Assignor by the Assignees, the receipt whereof is hereby acknowledged, he the Assignor doth hereby assign and convey unto the said Assignees his entire right, title and interest in and to the said invention and the Exclusive Privilege or Letters Patent of Mysore and the sole and exclusive benefits to be derived therefrom TO HOLD use exercise and enjoy the same for the whole of the unexpired term of the said Exclusive Privilege or Letters Patent or any extension thereof.

IN WITNESS whereof the said parties have hereunto set their hands and seals the day and year first above written.

SIGNED, SEALED AND DELIVERED by the said Paul Klein, in the presence of:-

Paul Klein

Charles Medgyes patent atty
Budapest V Vilmos es. ut 78

Lilly Stern, clerk
Budapest, VI, Vörösmarty-utca 33.

SIGNED, SEALED AND DELIVERED by the said ANODE RUBBER COMPANY LIMITED in the presence of:-

Sidney Herbert Rogers
15, Throgmorton Avenue
London E.C.
director

William John Brooks
15, Throgmorton Avenue
London E.C.
Secretary

For and on behalf of
THE ANODE RUBBER COMPANY LIMITED

DIRECTOR

W. J. Brooks SECRETARY.

45

From

~~Hon'ble~~

THE ~~CHIEF~~ SECRETARY TO THE
GOVERNMENT OF HIS HIGHNESS
THE MAHARAJA OF MYSORE

Rev Dept

To

Vice-Chancellor
Mysore

Dated 18/11/24

No. C 345-2 / Pol- 18-23-17

Has the honor to acknowledge the receipt of the ~~Power of Attorney~~ Papers of Government duly impressed with the Mysore Stamp and returned with your letter No. 150 dated 17/11/24

By Order,

17.11.24

Rev

For ~~Chief~~ Secretary to Government.

Dated 18/11/24.

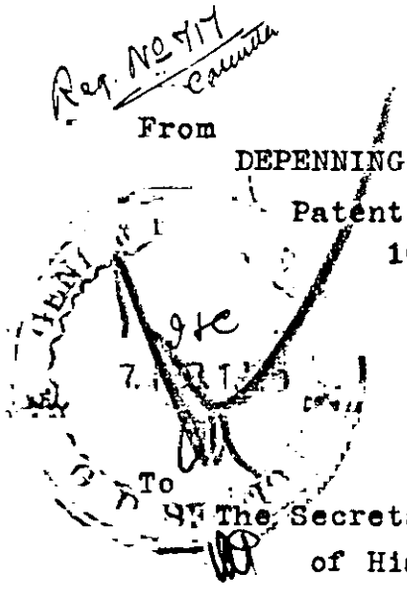
Copy to Mr S. N. Rao

46

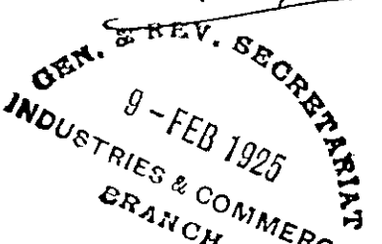
33840

10, Government Place East,

Calcutta, 4th February, 1925.



D 3989



Pat- 18-23-18

From

DEPENNING & DEPENNING,

Patent Agents,

10, Government place East,

Calcutta.

To

The Secretary to the Government

of His Highness The Maharaja of Mysore,

General and Revenue Secretariat,

BANGALORE.

Sir,

re: THE ANODE RUBBER COMPANY LIMITED,

Case I - Register No.8 of 1923-24.

We have the honour to forward herewith the Specification of the Anode Rubber Company Limited in respect of their invention for "PROCESS AND DEVICE FOR THE IMMEDIATE PRODUCTION OF MECHANICALLY UNWORKED PURE RUBBER SHEETS FROM LATEX", also the fee thereon of Rupees Thirty and which we have remitted this day by Postal Money Order.

We enclose herewith the Government order in this case so that the certificate at the foot of the form may be duly filled up and signed.

We shall be pleased to receive the document duly completed at an early date.

We have the honour to be,

Sir,

Your most obedient servants,

De Penning & De Penning

47 2 of 5

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE

General and Revenue Secretariat

Dated Bangalore, 18/2/ 1920.

No. I.C 5-5-90 / Pal- 18-23-4.

NOTIFICATION.

[PATENT]

No. 8 of 23-24

The following specification of an invention has been filed in accordance with sections 8, 9, 10 and 11 of Regulation XI of 1894 (The Inventions and Designs Regulations) and is open to inspection at the Mysore Government Secretariat on application to the ~~Chief~~ Revenue Secretary to the Government of His Highness the Maharaja of Mysore, and on payment of a fee of one rupee.

For "Process and device for the immediate production of mechanically unworked pure rubber sheets from latex by the Arcade Rubber Company, Ltd

By Order,

Chief Secretary to Government.

To

The Compiler, Mysore Gazette.

A121

48 2d/5

G. R. S. VI—s-v/18

DRAFT.

SUBJECT.....

.....

.....

No.

Section. Pat.
File No. 18-23
Serial No. 20

Diary No. of letter replied to.....

No. I.C 5371/25
2

GENERAL AND REVENUE SECRETARIAT
( )
the.....*191*

To

Messrs: de Penning
& de Penning
Patent Agents
11. Govt. Place East
Calcutta

Date of issue 13/2/25

Signed by V. V. Giri

Gentlemen

With reference to your letter dated 4-2-25 I am directed to forward copy of a Notification No. I.C. 5370 dated 13/2/25 Pat. 18-23-24 issued by this Government in regard to the invention no. 8 of 23-24 filed by you under Regulation XI of 1894 (The Inventions and Designs Regulations.)

The order granting permission to file specification is herewith returned, with the certificate at foot, duly filled in and signed.

I have, etc.,

VB. 17/2

for Secretary to Government.

20

Rev. Dept